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AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A lithium battery comprising:
a power-generating element comprising a positive electrode, a negative electrode and a separator, at least a part of said power-generating element comprising a gel electrolyte comprising: ~~at least~~
a polymer comprising a polymerized polyfunctional (meth) acrylate monomer, said gel electrolyte comprising said polymerized polyfunctional (meth) acrylate monomer in a range from 5% to 30% by weight; and
a liquid electrolyte, ~~wherein~~ a concentration of lithium salt in said liquid electrolyte being in a range is from ~~greater than~~ 2 to 4 mols per liter ~~l~~ of the liquid electrolyte.
2. (Currently amended) The lithium battery claimed in claim 1, wherein said gel electrolyte comprises said polymerized polyfunctional (meth) acrylate monomer in a range from 10% to 25% by weight ~~the weight fraction of the polymer in said gel electrolyte is from 5 to 30% by weight based on the sum of the weight of said polymer and said liquid electrolyte.~~
3. (Currently amended) The lithium battery claimed in claim 1, wherein said polyfunctional (meth) acrylate monomer comprises one of a bifunctional (meth) acrylate, a trifunctional (meth) acrylate, and a tetrafunctional (meth) acrylate ~~gel electrolyte comprises a hardened mixture of a liquid electrolyte and a monomer having at least two polymerizable functional groups in its molecular chain.~~
4. (Original) The lithium battery claimed in claim 1, wherein said lithium salt comprises LiBF_4 .
5. (Previously presented) The lithium battery claimed in claim 1, wherein said liquid electrolyte comprises an organic solvent comprising γ -butyrolactone in an amount of not smaller

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than 50% by weight.

6. (Currently amended) The lithium battery claimed in claim 2, wherein said polyfunctional (meth) acrylate monomer comprises a bifunctional (meth) acrylate monomer ~~gel electrolyte comprises a hardened mixture of a liquid electrolyte and a monomer having at least two polymerizable functional group in its molecular chain.~~

7. (Original) The lithium battery claimed in claim 2, wherein said lithium salt comprises LiBF_4 .

8. (Original) The lithium battery claimed in claim 3, wherein said lithium salt comprises LiBF_4 .

9. (Previously presented) The lithium battery claimed in claim 2, wherein said liquid electrolyte comprises an organic solvent comprising γ -butyrolactone in an amount of not smaller than 50% by weight.

10. (Previously presented) The lithium battery claimed in claim 3, wherein said liquid electrolyte comprises an organic solvent comprising γ -butyrolactone in an amount of not smaller than 50% by weight.

11. (Previously presented) The lithium battery claimed in claim 4, wherein said liquid electrolyte comprises an organic solvent comprising γ -butyrolactone in an amount of not smaller than 50% by weight.

12. (Currently amended) The lithium battery claimed in claim 1, wherein said liquid electrolyte comprises from ~~greater than~~ 2 to 3 mols per liter of said lithium salt.

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13. (Previously presented) The lithium battery claimed in claim 1, wherein said liquid electrolyte comprises a plurality of lithium salts.

14. (Previously presented) The lithium battery claimed in claim 1, wherein said liquid electrolyte comprises an organic solvent comprising at least one of γ -butyrolactone, propylene carbonate and ethylene carbonate.

15. (Previously presented) The lithium battery claimed in claim 1, wherein said lithium salt comprises an inorganic anion comprising at least one of PF_6^- , ClO_4^- , AsF_6^- , and SCN^- .

16. (Previously presented) The lithium battery claimed in claim 1, wherein said lithium salt comprises an organic anion.

17. (Currently amended) The lithium battery claimed in claim 3, wherein said polyfunctional (meth) acrylate monomer comprises ~~one of a bifunctional (meth) acrylate, a trifunctional (meth) acrylate, and a tetrafunctional (meth) acrylate.~~

18. (Currently amended) The lithium battery claimed in claim 1, wherein said polyfunctional (meth) acrylate monomer ~~comprises a trifunctional (meth) acrylate monomer concentration of said lithium salt in said liquid electrolyte is at least 2.2 mols per l of the liquid electrolyte, and wherein said lithium battery comprises a discharge capacity of at least 4.0 mAh.~~

19. (Currently amended) A lithium battery comprising:
positive and negative electrodes; and
a separator formed between said positive and negative electrodes,
wherein at least one of said positive electrode, said negative electrode and said separator
comprises a gel electrolyte comprising:
a polymer comprising a polymerized polyfunctional (meth) acrylate monomer.

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said gel electrolyte comprising said polymerized polyfunctional (meth) acrylate monomer in a range from 5% to 30% by weight; and

a liquid electrolyte, wherein said liquid electrolyte comprising from comprises greater than 2 to 4 mols per liter of said lithium salt.

20. (Currently amended) A method of fabricating a lithium battery, said method comprising:

forming positive and negative electrodes; and

forming a separator between said positive and negative electrodes,

wherein at least one of said positive electrode, said negative electrode and said separator comprises a gel electrolyte comprising:

a polymer comprising a polymerized polyfunctional (meth) acrylate monomer,
said gel electrolyte comprising said polymerized polyfunctional (meth) acrylate monomer in a range from 5% to 30% by weight and

a liquid electrolyte, wherein said liquid electrolyte comprises comprising
from greater than 2 to 4 mols per liter of said lithium salt.